MARKED UP VERSION SHOWING THE CHANGES.

SEQUENCE LISTING

<110> BERNSTEIN, Harold S.
COUGHLIN, Shaun R.

<120> METHODS AND COMPOSITIONS FOR REGULATING CELL CYCLE PROGRESSION

<130> UCSF-020/02US

<140> Not Yet Available
<141> 2001-01-08

<150> US 09/156,316
<151> 1998-09-18

<150> US 60/060,688
<151> 1997-09-22

<160> [46] 50

<170> PatentIn Ver. 2.1

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<211> 802
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Arg Ile Ala Ser Leu Leu His Arg Lys Ser Ala Lys Gln Cys Lys Ala
         35                  40                  45

Arg Trp Tyr Glu Trp Leu Asp Pro Ser Ile Lys Lys Thr Glu Trp Ser
     50                  55                  60

Arg Glu Glu Glu Glu Lys Leu Leu His Leu Ala Lys Leu Met Pro Thr
 65                  70                  75                  80

Gln Trp Arg Thr Ile Ala Pro Ile Ile Gly Arg Thr Ala Ala Gln Cys
                 85                  90                  95

Leu Glu His Tyr Glu Phe Leu Leu Asp Lys Ala Ala Gln Arg Asp Asn
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Glu Glu Glu Thr Thr Asp Asp Pro Arg Lys Leu Lys Pro Gly Glu Ile
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SEQUENCE LISTING

<110> BERNSTEIN, Harold S.
COUGHLIN, Shaun R.

<120> METHODS AND COMPOSITIONS FOR REGULATING CELL CYCLE PROGRESSION

<130> UCSF-020/02US

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<151> 1998-09-18

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Met Pro Arg Ile Met Ile Lys Gly Gly Val Trp Arg Asn Thr Glu Asp
  1               5                  10                  15

Glu Ile Leu Lys Ala Ala Val Met Lys Tyr Gly Lys Asn Gln Trp Ser
             20                  25                  30

Arg Ile Ala Ser Leu Leu His Arg Lys Ser Ala Lys Gln Cys Lys Ala
         35                  40                  45

Arg Trp Tyr Glu Trp Leu Asp Pro Ser Ile Lys Lys Thr Glu Trp Ser
     50                  55                  60

Arg Glu Glu Glu Glu Lys Leu Leu His Leu Ala Lys Leu Met Pro Thr
 65                  70                  75                  80

Gln Trp Arg Thr Ile Ala Pro Ile Ile Gly Arg Thr Ala Ala Gln Cys
                 85                  90                  95

Leu Glu His Tyr Glu Phe Leu Leu Asp Lys Ala Ala Gln Arg Asp Asn
            100                 105                 110

Glu Glu Glu Thr Thr Asp Asp Pro Arg Lys Leu Lys Pro Gly Glu Ile
        115                 120                 125

Asp Pro Asn Pro Glu Thr Lys Pro Ala Arg Pro Asp Pro Ile Asp Met
    130                 135                 140

Asp Glu Asp Glu Leu Glu Met Leu Ser Glu Ala Arg Ala Arg Leu Ala
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145 150 155 160

Asn Thr Gln Gly Lys Lys Ala Lys Arg Lys Ala Arg Glu Lys Gln Leu
165 170 175

Glu Glu Ala Arg Arg Leu Ala Ala Leu Gln Lys Arg Arg Glu Leu Arg
180 185 190

Ala Ala Gly Ile Glu Ile Gln Lys Lys Arg Lys Arg Lys Arg Gly Val
195 200 205

Asp Tyr Asn Ala Glu Ile Pro Phe Glu Lys Lys Pro Ala Leu Gly Phe
210 215 220

Tyr Asp Thr Ser Glu Glu Asn Tyr Gln Ala Leu Asp Ala Asp Phe Arg
225 230 235 240

Lys Leu Arg Gln Gln Asp Leu Asp Gly Glu Leu Arg Ser Glu Lys Glu
245 250 255

Gly Arg Asp Arg Lys Lys Asp Lys Gln His Leu Lys Arg Lys Lys Glu
260 265 270

Ser Asp Leu Pro Ser Ala Ile Leu Gln Thr Ser Gly Val Ser Glu Phe
275 280 285

Thr Lys Lys Arg Ser Lys Leu Val Leu Pro Ala Pro Gln Ile Ser Asp
290 295 300

Ala Glu Leu Gln Glu Val Val Lys Val Gly Gln Ala Ser Glu Ile Ala
305 310 315 320

Arg Gln Thr Ala Glu Glu Ser Gly Ile Thr Asn Ser Ala Ser Ser Thr
325 330 335

Leu Leu Ser Glu Tyr Asn Val Thr Asn Asn Ser Val Ala Leu Arg Thr
340 345 350

Pro Arg Thr Pro Ala Ser Gln Asp Arg Ile Leu Gln Glu Ala Gln Asn
355 360 365

Leu Met Ala Leu Thr Asn Val Asp Thr Pro Leu Lys Gly Gly Leu Asn
370 375 380

Thr Pro Leu His Glu Ser Asp Phe Ser Gly Val Thr Pro Gln Arg Gln
385 390 395 400

Val Val Gln Thr Pro Asn Thr Val Leu Ser Thr Pro Phe Arg Thr Pro
405 410 415

Ser Asn Gly Ala Glu Gly Leu Thr Pro Arg Ser Gly Thr Thr Pro Lys
420 425 430

Pro Val Ile Asn Ser Thr Pro Gly Arg Thr Pro Leu Arg Asp Lys Leu
435 440 445

Asn Ile Asn Pro Glu Asp Gly Met Ala Asp Tyr Ser Asp Pro Ser Tyr

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Val Lys Gln Met Glu Arg Glu Ser Arg Glu His Leu Arg Leu Gly Leu
465                 470                 475                 480

Leu Gly Leu Pro Ala Pro Lys Asn Asp Phe Glu Ile Val Leu Pro Glu
                485                 490                 495

Asn Ala Glu Lys Glu Leu Glu Glu Arg Glu Ile Asp Asp Thr Tyr Ile
            500                 505                 510

Glu Asp Ala Ala Asp Val Asp Ala Arg Lys Gln Ala Ile Arg Asp Ala
        515                 520                 525

Glu Arg Val Lys Glu Met Lys Arg Met His Lys Ala Val Gln Lys Asp
    530                 535                 540

Leu Pro Arg Pro Ser Glu Val Asn Thr Glu Ile Leu Arg Pro Leu Asn
545                 550                 555                 560

Val Glu Pro Pro Leu Thr Asp Leu Gln Lys Ser Glu Glu Leu Ile Lys
                565                 570                 575

Lys Glu Met Ile Thr Met Leu His Tyr Asp Leu Leu His His Pro Tyr
            580                 585                 590

Glu Pro Ser Gly Asn Lys Lys Gly Lys Thr Val Gly Phe Gly Thr Asn
        595                 600                 605

Asn Ser Glu His Ile Thr Tyr Leu Glu His Asn Pro Tyr Glu Lys Phe
    610                 615                 620

Ser Lys Glu Glu Leu Lys Lys Ala Gln Asp Val Leu Val Gln Glu Met
625                 630                 635                 640

Glu Val Val Lys Gln Gly Met Ser His Gly Glu Leu Ser Ser Glu Ala
                645                 650                 655

Tyr Asn Gln Val Trp Glu Glu Cys Tyr Ser Gln Val Leu Tyr Leu Pro
            660                 665                 670

Gly Gln Ser Arg Tyr Thr Arg Ala Asn Leu Ala Ser Lys Lys Asp Arg
        675                 680                 685

Ile Glu Ser Leu Glu Lys Arg Leu Glu Ile Asn Arg Gly His Met Thr
    690                 695                 700

Thr Glu Ala Lys Arg Ala Ala Lys Met Glu Lys Lys Met Lys Ile Leu
705                 710                 715                 720

Leu Gly Gly Tyr Gln Ser Arg Ala Met Gly Leu Met Lys Gln Leu Asn
                725                 730                 735

Asp Leu Trp Asp Gln Ile Glu Gln Ala His Leu Glu Leu Arg Thr Phe
            740                 745                 750

Glu Glu Leu Lys Lys His Glu Asp Ser Ala Ile Pro Arg Arg Leu Glu
```

```
        755                 760                 765

Cys Leu Lys Glu Asp Val Gln Arg Gln Gln Glu Arg Glu Lys Glu Leu
    770                 775                 780

Gln His Arg Tyr Ala Asp Leu Leu Leu Glu Lys Glu Thr Leu Lys Ser
785                 790                 795                 800

Lys Phe
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<212> PRT
<213> Homo sapiens

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Ala Val Met Lys Tyr Gly Lys Asn Gln Trp Ser Arg Ile Ala Ser Leu
             20                  25                  30

Leu His Arg Lys Ser Ala Lys Gln Cys Lys Ala Arg Trp Tyr Glu Trp
         35                  40                  45

Leu Asp Pro
     50
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<210> 3
<211> 51
<212> PRT
<213> Schizosaccharomyces pombe

<400> 3

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Leu Lys Gly Gly Ala Trp Lys Asn Thr Glu Asp Glu Ile Leu Lys Ala
  1               5                  10                  15

Ala Val Ser Lys Tyr Gly Lys Asn Gln Trp Ala Arg Ile Ser Ser Leu
             20                  25                  30

Leu Val Arg Lys Thr Pro Lys Gln Cys Lys Ala Arg Trp Tyr Glu Trp
         35                  40                  45

Ile Asp Pro
     50
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<210> 4
<211> 50
<212> PRT
<213> Homo sapiens

<400> 4

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Val Lys Gly Pro Trp Thr Lys Glu Glu Asp Gln Lys Val Ile Glu Leu
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```
  1               5                  10                  15

Val Lys Lys Tyr Gly Thr Lys Gln Trp Thr Leu Ile Ala Lys His Leu
             20                  25                  30

Lys Gly Arg Leu Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu
         35                  40                  45

Asn Pro
     50


<210> 5
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5
Ile Lys Gly Pro Trp Thr Lys Glu Glu Asp Gln Lys Val Ile Glu Leu
  1               5                  10                  15

Val Gln Lys Tyr Gly Pro Lys Arg Trp Ser Leu Ile Ala Lys His Leu
             20                  25                  30

Lys Gly Arg Ile Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu
         35                  40                  45

Asn Pro
     50


<210> 6
<211> 50
<212> PRT
<213> Homo sapiens

<400> 6
Ile Lys Gly Pro Trp Thr Lys Glu Glu Asp Gln Lys Val Ile Glu Leu
  1               5                  10                  15

Val Gln Lys Tyr Gly Pro Lys Arg Trp Ser Val Ile Ala Lys His Leu
             20                  25                  30

Lys Gly Arg Ile Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu
         35                  40                  45

Asn Pro
     50


<210> 7
<211> 123
<212> PRT
<213> Homo sapiens

<400> 7
Pro Leu Lys Gly Gly Leu Asn Thr Pro Leu His Glu Ser Asp Phe Ser
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```
  1               5                  10                  15

Gly Val Thr Pro Gln Arg Gln Val Val Gln Thr Pro Asn Thr Val Leu
            20                  25                  30

Ser Thr Pro Phe Arg Thr Pro Ser Asn Gly Ala Glu Gly Leu Thr Pro
        35                  40                  45

Arg Ser Gly Thr Thr Pro Lys Pro Val Ile Asn Ser Thr Pro Gly Arg
    50                  55                  60

Thr Pro Leu Arg Asp Lys Leu Asn Ile Asn Pro Glu Asp Gly Met Ala
65                  70                  75                  80

Asp Tyr Ser Asp Pro Ser Tyr Val Lys Gln Met Glu Arg Glu Ser Arg
                85                  90                  95

Glu His Leu Arg Leu Gly Leu Leu Gly Leu Pro Ala Pro Lys Asn Asp
            100                 105                 110

Phe Glu Ile Val Leu Pro Glu Asn Ala Glu Lys
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<210> 8
<211> 107
<212> PRT
<213> Schizosaccharomyces pombe

<400> 8

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Ser Val Thr Ile Glu Val Arg Asn Gln Leu Met Asn Arg Glu Gln Ser
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Ser Leu Leu Gly Gln Glu Ser Ile Pro Leu Gln Pro Gly Gly Thr Gly
            20                  25                  30

Tyr Thr Gly Val Thr Pro Ser His Ala Ala Asn Gly Ser Ala Leu Ala
        35                  40                  45

Ala Pro Gln Ala Thr Pro Phe Arg Thr Pro Arg Asp Thr Phe Ser Ile
    50                  55                  60

Asn Ala Ala Ala Glu Arg Ala Gly Arg Leu Ala Ser Glu Arg Glu Asn
65                  70                  75                  80

Lys Ile Arg Leu Lys Ala Leu Arg Glu Leu Leu Ala Lys Leu Pro Lys
                85                  90                  95

Pro Lys Asn Asp Tyr Glu Leu Met Glu Pro Arg
            100                 105
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<210> 9
<211> 119
<212> PRT
<213> Homo sapiens

<400> 9
Pro Val Lys Thr Leu Pro Phe Ser Pro Ser Gln Phe Leu Asn Phe Trp
1 5 10 15

Asn Lys Gln Asp Thr Leu Glu Leu Glu Ser Pro Ser Leu Thr Ser Thr
20 25 30

Pro Val Cys Ser Gln Lys Val Val Val Thr Thr Pro Leu His Arg Asp
35 40 45

Lys Thr Pro Leu His Gln Lys His Ala Ala Phe Val Thr Pro Asp Gln
50 55 60

Lys Tyr Ser Met Asp Asn Thr Pro His Thr Pro Thr Pro Phe Lys Asn
65 70 75 80

Ala Lys Tyr Gly Pro Leu Lys Pro Leu Pro Gln Thr Pro His Leu Glu
85 90 95

Glu Asp Leu Lys Glu Val Leu Arg Ser Glu Ala Gly Ile Glu Leu Ile
100 105 110

Ile Glu Asp Asp Ile Arg Pro
115

<210> 10
<211> 123
<212> PRT
<213> Homo sapiens

<400> 10
Ile Leu Arg Lys Lys Arg Lys Met Arg Val Gly His Ser Pro Gly Ser
1 5 10 15

Glu Leu Arg Asp Gly Ser Leu Asn Asp Gly Gly Asn Met Ala Leu Lys
20 25 30

His Thr Pro Leu Lys Thr Leu Pro Phe Ser Pro Ser Gln Phe Phe Asn
35 40 45

Thr Cys Pro Gly Asn Glu Gln Leu Asn Ile Glu Asn Pro Ser Phe Thr
50 55 60

Ser Thr Pro Ile Cys Gly Gln Lys Ala Leu Ile Thr Thr Pro Leu His
65 70 75 80

Lys Glu Thr Thr Pro Lys Asp Gln Lys Glu Asn Val Gly Phe Arg Thr
85 90 95

Pro Thr Ile Arg Arg Ser Ile Leu Gly Thr Pro Arg Thr Pro Thr Pro
100 105 110

Phe Lys Asn Ala Leu Ala Ala Gln Glu Lys Lys
115 120

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agggggcgt atggaggaat accgaggatg aaattctgaa agcagcggta atgaaatatg 180
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aagaggaaaa actcttgcac ttggccaagt tgatgccaac tcagtggagg accattgctc 360
caatcattgg aagaacagcg gcccagtgct tagaacacta tgaatttctt ctggataaag 420
ctgcccaaag agacaatgaa gaggaaacaa cagatgatcc acgaaaactt aaacctggag 480
aaatagatcc aaatccagaa acaaaaccag cgcggcctga tccaattgat atggatgagg 540
atgaacttga gatgctttct gaagccagag cccgcttggc taatactcag ggaaagaagg 600
ccaagaggaa agcaagagag aaacaattgg aagaagcaag acgtcttgct gccctccaaa 660
aaagaagaga acttcgagca gctggcatag aaattcagaa gaaaagaaaa aggaagagag 720
gagttgatta taatgccgaa atcccatttg aaaaaaagcc tgcccttggt ttttatgata 780
cttctgagga aaactaccaa gctcttgacg cagatttcag gaaattaaga caacaggatc 840
ttgatgggga gctaagatct gaaaaagaag gaagagatag aaaaaaagac aaacagcatt 900
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aatttactaa aaagagaagc aaactagtac ttcctgcccc tcagatttca gatgcagaac 1020
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cagttctctc tactccattc aggactcctt ctaatggagc tgaagggctg actccccgga 1380
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agtttaaatt attaaggcta tcattctttt agtaatgtca tatttgcaaa ctttttagt 2760
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<212> PRT
<213> Artificial Sequence

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monoclonal antibody

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<210> 13
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 13
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<210> 14
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

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<210> 15
<211> 15
<212> DNA
<213> Homo sapiens

<400> 15
aataaaatca aaatt 15

<210> 16
<211> 15
<212> DNA
<213> Homo sapiens

<400> 16
aaaggggaac acttt 15

<210> 17
<211> 55
<212> DNA
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<220>
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<222> (21)..(35)
<223> n = Any Nucleotide

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<210> 18
<211> 20
<212> DNA
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<223> Description of Artificial Sequence: Synthetic

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gcgtcgacaa gctttctaga 20

<210> 19
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 19
cgctcgaggg atccgaattc 20

<210> 20
<211> 11
<212> DNA
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<220>
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<400> 20
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<210> 21
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<220>
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<400> 21
tatttaacat aa 12

<210> 22
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<220>
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<400> 22
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<210> 23
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<213> Artificial Sequence

<220>
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<400> 23
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<210> 24
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<210> 26
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<210> 28
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<400> 29
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<210> 31
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<220>
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<400> 31
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<210> 32
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<212> DNA
<213> Homo sapiens

<400> 33
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<210> 34
<211> 26
<212> DNA
<213> Homo sapiens

<400> 34
aattccccgg atcattgcaa acaatt 26

<210> 35
<211> 17
<212> DNA
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<400> 35
aatgaacgaa tcaaatt 17

<210> 36
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
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<400> 36
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<210> 37
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<400> 38

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<210> 39
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<220>
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<400> 42
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<210> 48
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<220>
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agtactgtcc tccgcgattt aacataagat ttaacataag atttaacata aactctagag 120

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<212> DNA
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<400> 49
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<210> 50
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<220>
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